

# THE GLOBAL COLORS NEWSLETTER



ISSUE 7 / 2ND SEMESTER 2016

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## POINTS OF INTEREST:

- **Fighting malodours is more efficient with the use of special fragrance masterbatches**
- **Special Kritilen® Black masterbatches are proven solutions in a variety of end applications**
- **Additive masterbatches offer permanent antistatic action and anti scratch resistance**
- **Fillers are not just for cost reduction but they offer important functionalities in plastics**

## NEW FRAGRANCE MASTERBATCHES FOR GARBAGE BAGS

Plastic bags are part of our daily life. They are used all around the house. They are convenient but also a source of bacteria and bad odors. A common practice, in order to avoid these undesired odours, is to incorporate fragrances in plastic bags. As expected, the most convenient way to do so is the use of masterbatches.

Global Colors has already a wide range of fragrance masterbatches such as strawberry, lemon, vanilla, rose, white floral, lavender, green apple lilac, apple cinnamon, white musk etc. These scents are incorporated into a polyolefin carrier and are suitable for use in plastic garbage or shopping bags, either for masking the undesired odors or for imparting a pleasant aroma in the bag.

Furthermore, Global Colors, being in close collaboration with its suppliers, has developed masterbatches which

counteract malodours by chemically interacting and deactivating the substances that cause the malodours. Depending on this malodour origin (bathroom, kitchen or pet malodours), Global Colors can offer specifically designed fragrance masterbatches.

Kritilen® 1411 Forest OC and 1412 Lavender OC contain active ingredients, which incorporate these specific fragrances in the end product and also reduce odour through chemical binding of the chemical substances creating the odour and by inhibiting the growth of the bad odour causing bacteria. Global Colors can also develop different fragrance masterbatches having the OC (odour control) action. These masterbatches are proposed for use in garbage bags.

Kritilen® 1409 Citronella INS was developed in order to repel insects from plastic end

products. It is particularly recommended for garbage bags, whose content attracts mosquitos or other insects during the summertime. By repelling mosquitos, adding Kritilen® 1409 Citronella INS in garbage bags, the risk of transmitting the Zika virus to humans by these mosquitos is reduced.



Picture 1: Malodours are reduced with the use of special Global Colors fragrance masterbatches in garbage bags

## SPECIALTY FILLER FOR NON WOVEN APPLICATIONS

The non woven fabrics cover a very wide range of end applications such as diapers or other hygiene products, protective clothing and technical products such as filtration parts, agrotexiles, wipes etc.

The non woven fabric manufacturers continuously look for ways to improve their product quality and

reduce its cost.

Plastika Kritis has launched Kritilen® SF PP965, which is a specialty filler masterbatch suitable for non woven. It contains an ultra fine and specially treated calcium carbonate based on a spun bond PP grade carrier.

It is proposed for use at let

down ratios of 5%-20% in the end product.

Kritilen® SF PP965, along with the cost reduction that offers in the fiber recipe, it helps in reducing the cooling time in fiber production, improving their dimensional stability and weldability and imparting a softer touch in the end product.

## A NON MIGRATORY SLIP MASTERBATCH OFFERS ADVANTAGES TO FILM MANUFACTURERS

Kritilen® SL658 is a new non migratory slip masterbatch. It is based on a polyethylene carrier and contains a specially selected organic slip additive. This organic slip additive is perfectly homogenized and dispersed in the carrier matrix, ensuring the maximum performance at the end processors production.

It is mainly proposed for use in various films made of polyolefins. It reduces the friction of the film surface, while preventing undesired effects that may be caused by the conventional migrating slip additives (such as problems in printing, sealing etc).

Depending on the end product requirements,

the SL658 proposed let down ratio varies between 1% and 4%. Tests must be made in order to define the optimum addition in the end product.

The raw materials used in the SL658 formulation comply with the European Union and U.S. regulations regarding their food contact status.



Picture 2: Film manufactures benefit from the use of Kritilen® SL658

## KRITILEN® AT4400: A NEW PERMANENT ANTISTATIC MASTERBATCH WITH EXCELLENT PERFORMANCE

Plastika Kritis has introduced Kritilen® AT4400, which is a permanent antistatic, ensuring a long lasting antistatic action in packaging or other plastics applications. It is used for lowering the static decay time and surface resistivity of polyolefins and other polymers.

It has an excellent performance without causing

any yellowing or loss of clarity. As the active substance does not migrate to the surface of end product, there are no printability or adhesion problems in films. Furthermore, no die build up in extruder dies is expected. Kritilen® AT4400 is efficient in filled polymers, as well. This masterbatch has a melting point of 90°C and is proposed for use at addition

rates of 10%-20%. Plastika Kritis can provide charts showing resistivity values related to relative humidity and addition rates.

Kritilen® AT4400 complies with the U.S. Food and Drug Administration Regulation 21 CFR 177.1330(a). A detailed Regulatory Statement, including its status according to European laws, is available upon request.

***“As the active substance does not migrate to the surface of end product, there are no printability or adhesion problems in films. Furthermore, no die build up in extruder dies is expected.”***

## GLOBAL COLORS INTRODUCES A SOLUTION FOR ANTI SCRATCHING PERFORMANCE

Kritilen® ASC PS7711 is a premium anti scratching masterbatch suitable for styrenic polymers. It is based on a PS-GP carrier and contains a special active ingredient that offers a permanent action.

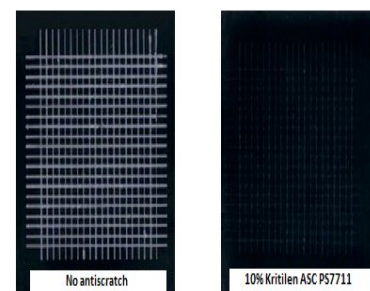
ASC PS7711 is recommended for use at a let down ratio range of 5%-12% At this addition rate, the active ingredient has no influence on applied coatings,

printings and adhesives applied on the final part afterwards. The addition of ASC PS7711 has no negative influence regarding haptic issues.

ASC PS7711 contains a non-migrating active ingredient, it is highly efficient and does not need to be combined with amides. It works in a wide range of talc filled products with talc loadings up to 40%. It

does not have any negative influence in the gloss of the end article.

Plastika Kritis can also develop masterbatches incorporating the ASC PS7711 active ingredient in alternative carriers such as PBT, PP or other engineering polymers, providing antiscratch solution in a variety of end plastics applications.



Picture 3: Clear improvement in scratching resistance is achieved with the use of ASC PS7711 in a polystyrene plaque

## FUNCTIONAL KRITILEN® FILLER 5809 IMPROVES THE QUALITY OF PLASTIC DISHES

Plastic dishes made of polystyrene are popular products in parties, picnics, dining in office etc.

As these products are disposable, they must be price affordable. On the other hand, they must retain a minimum level of mechanical properties, for example they must be rigid enough but not brittle. Manufacturers of such products, use a co-extrusion structure, adding a lot of calcium carbonate in the middle layer.

By adding this filler, they reduce the cost and create a rigid dish. However, excessive addition of calcium carbonate will have a negative result, as plates will tend to break much easier and their quality will deteriorate.

In order to help the plastic dish producers to improve the quality of their product, while keeping a low formulation cost, Plastika Kritis has developed Kritilen® Filler 5809. This specialty filler

masterbatch contains a high loading of a low particle size calcium carbonate and a mixture of special carriers that balance rigidity and elasticity, so that the plastic dish has the optimum techno-economical performance.

High addition rates of Filler 5809 can be achieved, e.g. up to 30%, making this masterbatch as the ideal additive for the production of polystyrene disposable dishes.



Picture 4: Filler 5809 imparts significant improvements in plastic dish recipes

## LOWER COST BUT ADVANCED QUALITY POLYETHYLENE BLACK MASTERBATCHES OFFER NEW POSSIBILITIES

Plastika Kritis has a broad portfolio of black masterbatches, however it continuously develops new products, giving the plastics processors the opportunity to select their ideal solution. Recently, the following three new products are launched:

1. Kritilen® Black 4403P: It contains 40% of a P type carbon black (particle size 20-25nm) and calcium carbonate on a LLDPE carrier. Due to its pigment type, it offers excellent UV protec-

tion at addition rates of 5-7%. Black 4403P contains a carbon black type that complies with Regulation (EU) 10/2011 up to an addition rate of 6%. This product has an excellent dispersion and is suitable for films, thermoforming and injection molding articles.

2. Kritilen® Black 4010: It contains a premium HAF type of carbon black (particle size 27-30nm) and calcium carbonate on a LDPE carrier. It is successful-

ly used in geomembranes and plastic liners by leading processors.

3. Kritilen® Black 450: It contains 50% of a premium HAF type of carbon black (particle size 27-30nm). Its carrier is LLDPE. It is a masterbatch suitable for films, injection molding, pipes, compounds etc.

These Kritilen® Black masterbatch are offered in various packaging options, such as small bags of 25kg, big bags or octabins.

***“Kritilen® Black 4010 is successfully used in geomembranes and plastic liners by leading processors.”***

## NEW COLOR RANGE FOR PET STRAPS

Already being an expert in offering the best masterbatch color and additive solutions for PET straps, Global Colors has widened its range of color masterbatches for this particular application.

Global Colors has recently launched the following color masterbatches for the PET strapping industry:

1. Yellow PP10832: Middle lemon yellow shade with good opacity.

2. Red PP31294: Slightly bluish red color similar to trendy flame red.

3. Blue PP41717: Light blue shade.

4. Blue PP41719: Reddish blue shade resembling to a famous refreshment

brand tone.

5. Green PP50795: Turquoise green color.

All above masterbatches also contain an anti-split additive in their recipes.

In addition to these products, Global Colors can make tailor-made shades according to each strap processors requirements.



Picture 5: New color masterbatches from Global Colors provide several coloring options for PET straps

## KRITILEN® BLACK PVC89006 CONTINUOUSLY GAINS MARKET SHARE IN CABLES MANUFACTURING

Kritilen® Black PVC89006 is a product specifically designed for coloring PVC cables and other plasticized PVC products.

Its formulation contains a premium carbon black grade, suitable for cables, and a flexible PVC carrier that is DOTP-free. Kritilen® Black PVC89006 contains raw materials that comply to RoHS requirements.

This masterbatch has an excellent dispersion of carbon black in its

carrier and an optimized rheology, ensuring the optimum performance of the masterbatch during the cable manufacturing.

Plastika Kritis is one of the leading European producers of black masterbatches. Its extensive experience in selecting the best quality raw materials and its ability to apply the optimum masterbatch production techniques, enable Plastika Kritis to offer the best solutions for the PVC cable industry.

Black PVC89006 is produced in state of the art production lines with the strictest quality specifications. Quality consistency from lot to lot is guaranteed and documented in Plastika Kritis quality management system. As Plastika Kritis has a strong production basis and significant installed capacity, the delivery time of Black PVC89006 is minimum.

The detailed technical specifications of Black PVC89006 are available upon request.



Picture 6: Kritilen® Black PVC89006 becomes more and more popular in cables manufacturing

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**GLOBAL COLORS** is an international Group serving the plastics industry with high quality color and additive concentrates. It ensures competitive solutions and localized service with a number of modern production plants in strategic locations.

All Group companies share the same technology, know-how, quality standards, economies of scale, financial resources, range of products and new developments. Decentralized management and marketing ensure a high level of responsiveness to customer requirements combined with fast and flexible decision-making.

The Group's annual production capacity exceeds 45000 MT.

Members of **GLOBAL COLORS** group are:

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- ROMCOLOR 2000 S.A., Romania
- SENKROMA S.A., Turkey
- GLOBAL COLORS POLSKA S.A., Poland
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